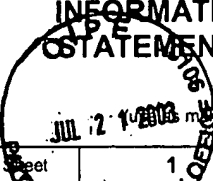


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Substitute for form 1449A/PTO (Modified)		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use as many sheets as necessary)		Application Number	09/748,706
		Filing Date	December 22, 2000
		First Named Inventor	Chee, M.S.
		Group Art Unit	1634
		Examiner Name	Forman, B.J.
		Attorney Docket Number	A-66828-5/RMS/DCF/KJC
Sheet 1	of 15		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	3,712,535	01/1973	Genese, J.N., et al.	
	A2	3,748,975	07/1973	Tarabocchia	
	A3	4,125,314	11/1978	Haskell et al.	
	A4	4,224,198	09/1980	Rembaum et al.	
	A5	4,448,485	05/1984	Bergman et al.	
	A6	4,582,789	05/1986	Sheldon, III et al.	
	A7	4,687,732	08/1987	Ward et al.	
	A8	4,729,949	03/1988	Weinreb et al.	
	A9	4,772,540	09/1988	Deutsch et al.	
	A10	4,842,783	06/1989	Blaylock	
	A11	4,868,130	09/1989	Hargreaves, W.R.	
	A12	4,876,187	10/1989	Duck et al.	
	A13	4,879,097	11/1989	Whitehead, T.P., et al.	
	A14	4,894,343	01/1990	Tanaka et al.	
	A15	4,895,805	01/1990	Sato et al.	
	A16	4,981,783	01/1991	Augenlicht	
	A17	5,015,843	05/1991	Seitz et al.	
	A18	5,019,350	05/1991	Rhum et al.	
	A19	5,026,599	06/1991	Koskenmaki	
	A20	5,061,336	10/1991	Soane	
	A21	5,071,531	12/1991	Soane	
	A22	5,110,745	05/1992	Kricka et al.	
	A23	5,126,022	06/1992	Soane et al.	

Examiner Signature		Date Considered	2/04
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			Group Art Unit	1634	
			Examiner Name	Forman, B.J.	
Sheet	2	of	15	Attorney Docket Number	A-66828-5/RMS/DCF/KJC

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11	A24	5,135,627	08/1992	Soane	
	A25	5,176,881	01/1993	Sepaniak et al.	
	A26	5,177,012	01/1993	Kim et al.	
	A27	5,185,178	02/1993	Kosenmaki	
	A28	5,185,243	02/1993	Ullman et al.	
	A29	5,272,081	12/1993	Weinreb et al.	
	A30	5,296,375	03/1994	Kricka et al.	
	A31	5,304,487	04/1994	Wilding et al.	
	A32	5,308,771	05/1994	Zhou et al.	
	A33	5,310,674	05/1994	Weinreb et al.	
	A34	5,342,737	08/1994	Georger, Jr. et al.	
	A35	5,486,335	01/1996	Wilding et al.	
	A36	5,498,392	03/1996	Wilding et al.	
	A37	5,506,141	04/1996	Weinreb et al.	
	A38	5,518,863	05/1996	Pawluczyk	
	A39	5,541,311	07/1996	Dahlberg et al.	
	A40	5,545,531	08/1996	Rava et al.	
	A41	5,554,516	09/1996	Kacian et al.	
	A42	5,585,069	12/1996	Zanzucchi et al.	
	A43	5,587,128	12/1996	Wilding et al.	
	A44	5,589,351	12/1996	Harootunian	
	A45	5,593,838	01/1997	Zanzucchi et al.	
	A46	5,595,915	01/1997	Geysen	

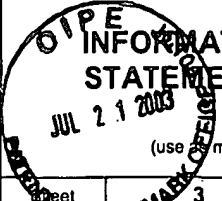
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		Examiner Name	Forman, B.J.
		Attorney Docket Number	A-66828-5/RMS/DCF/KJC
Sheet 3 of 15			

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M	A47	5,603,351	02/1997	Cherukuri et al.	
	A48	5,610,287	03/1997	Nikiforov et al.	
	A49	5,631,170	05/1997	Attridge	
	A50	5,631,337	05/1997	Sassi et al.	
	A51	5,632,876	05/1997	Zanzucchi et al.	
	A52	5,632,957	05/1997	Heller et al.	
	A53	5,635,358	06/1997	Wilding et al.	
	A54	5,637,469	06/1997	Wilding et al.	
	A55	5,640,234	06/1997	Roth et al.	
	A56	5,643,738	07/1997	Zanzucchi et al.	
	A57	5,647,030	07/1997	Jorgenson et al.	
	A58	5,649,576	07/1997	Kirk	
	A59	5,660,988	08/1997	Duck et al.	
	A60	5,671,303	09/1997	Shieh et al.	
	A61	5,674,698	10/1997	Zarling et al.	
	A62	5,677,196	10/1997	Herron et al.	
	A63	5,679,773	10/1997	Holmes	
	A64	5,681,484	10/1997	Zanzucchi et al.	
	A65	5,714,330	02/1998	Brenner et al.	
	A66	5,726,026	04/1998	Wilding et al.	
	A67	5,747,169	05/1998	Fan et al.	
	A68	5,747,180	05/1998	Miller et al.	
	A69	5,750,015	05/1998	Soane et al.	

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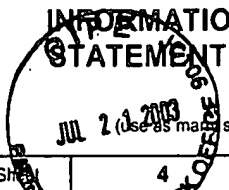
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		Filing Date	December 22, 2000
		First Named Inventor	Chee, M.S.
		Group Art Unit	1634
		Examiner Name	Forman, B.J.
Sheet 4 of 15	Attorney Docket Number	A-66828-5/RMS/DCF/KJC	

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Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
m	A70	5,755,942	05/1998	Zanzucchi et al.	
	A71	5,770,029	06/1998	Nelson et al.	
	A72	5,770,157	06/1998	Cargill et al.	
	A73	5,795,716	08/1998	Chee	
	A74	5,837,196	11/1998	Pinkel et al.	
	A75	5,843,655	12/1998	McGall	
	A76	5,846,842	12/1998	Herron et al.	
	A77	5,849,215	12/1998	Gin et al.	
	A78	5,854,033	12/1998	Lizardi	
	A79	5,863,722	01/1999	Brenner, Sydney	
	A80	5,866,331	02/1999	Singer et al.	
	A81	5,874,219	02/1999	Rava et al.	
	A82	5,876,924	03/1999	Zhang et al.	
	A83	5,881,200	03/1999	Burt	
	A84	5,888,885	03/1999	Xie	
	A85	5,922,617	07/1999	Wang et al.	
	A86	5,976,797	11/1999	Mitsubishi	
	A87	5,981,180	11/1999	Chandler et al.	
	A88	5,985,353	11/1999	Lawton et al.	
	A89	5,990,479	11/1999	Weiss et al.	
	A90	6,008,892	12/1999	Kain et al.	
	A91	6,037,186	03/2000	Stimpson	
	A92	6,039,894	03/2000	Sanjurjo et al.	

Examiner Signature		Date Considered	2/04
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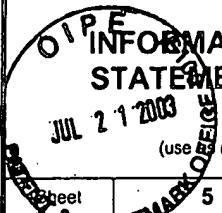
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		Filing Date	December 22, 2000
		First Named Inventor	Chee, M.S.
		Group Art Unit	1634
		Examiner Name	Forman, B.J.
		Attorney Docket Number	A-66828-5/RMS/DCF/KJC
Sheet	5	of	15

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
M	A93	6,045,760	04/2000	Aizawa et al.	
	A94	6,048,515	04/2000	Kresse et al.	
	A95	6,048,616	04/2000	Gallagher et al.	
	A96	6,060,743	05/2000	Sugiyama et al.	
	A97	6,071,748	06/2000	Modlin et al.	
	A98	6,074,754	06/2000	Jacobsen et al.	
	A99	6,087,114	07/2000	Rider	
	A100	6,090,549	07/2000	Mirzabekov et al.	
	A101	6,090,553	07/2000	Matson	
	A102	6,090,666	07/2000	Ueda et al.	
	A103	6,096,496	08/2000	Frankel	
	A104	6,100,973	08/2000	Lawandy	
	A105	6,114,038	09/2000	Castro et al.	
	A106	6,121,075	09/2000	Yamashita	
	A107	6,129,896	10/2000	Noonan et al.	
W	A108	6,139,626	10/2000	Norris et al.	
	A109	6,200,737	03/2001	Walt et al.	
	A110	6,207,392 B1	03/2001	Weiss et al.	
	A111	6,210,910	04/2001	Walt et al.	
	A112	6,261,782	07/2001	Lizardi et al.	
	A113	6,266,459	07/2001	Walt, D.R. and K.L. Michael	
	A114	6,268,147 B1	07/2001	Beattie et al.	
	A115	6,274,323 B1	08/2001	Bruchez et al.	

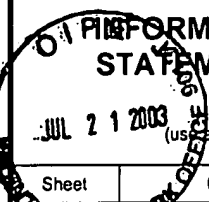
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Sheet	6	of	15

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M	A116	6,280,935	08/2001	Macevicz	
	A117	6,284,456	09/2001	Jones et al.	
	A118	6,284,465 B1	09/2001	Wolber	
	A119	6,285,807	09/2001	Walt, D.R., et al	
	A120	6,306,643 B1	10/2001	Gentalen et al.	
	A121	6,327,410 B1	12/2001	Walt, D.R. and K.L. Michael	
	A122	6,355,431 B1	03/2002	Chee et al.	
	A123	6,377,721	04/2002	Walt, D.R., and L.C. Taylor	
	A124	6,396,995	05/2002	Stuelpnagel, E., et al.	
	A125	6,406,845	06/2002	Walt, D.R., and B.G. Healey	
	A126	6,429,027	08/2002	Chee, M.S., et al.	
	A127	6,482,593	11/2002	Walt, D.R., and B.G. Healey	
	A128	6,544,732	04/2003	Chee, M.S., et al.	
	A129	20010029049	10/2001	Walt, D., and T. Dickinson	
	A130	20020001801	01/2002	Fan, J.B. and M.S. Chee	
	A131	20020006617	01/2002	Fan, J.B. and M.S. Chee	
	A132	20020051971	05/2002	Stuelpnagel, J.R., et al.	
	A133	20020122612	09/2002	Walt, D.R., and K.L. Michael	
N	A134	20020132221	09/2002	Chee, M.S., et al.	
	A135	20020132241	09/2002	Fan, J.B., et al.	
	A136	20020150909	10/2002	Stuelpnagel, et al.	
	A137	20020172716	11/2002	Walt, D.R., et al.	
	A138	20020177141	11/2002	Chee, M., and K. Gunderson	

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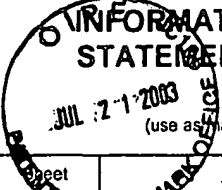
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<i>N</i>	A139	20021087515	12/2002	Chee, M.S., et al.	
	A140	20030003490	01/2003	Fan, J.B., and M.S. Chee	
	A141	20030016897	01/2003	Walt, D.R., and K.L. Michael	
<i>M</i>	A142	20030027126	02/2003	Walt, D.R., and K.L. Michael	

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<i>N</i>	B1	JP 01283412	09/1991	Brother Ind Ltd, et al.	<i>Abst</i>	
<i>M</i>	B2	FR 2741357	05/1997	Corning Inc.	<i>Abst</i>	
	B3	UK 2294319A	04/1996	Cambridge Imaging Limited		
	B4	UK 2315130	01/1998	Cambridge Imaging Ltd.		
	B5	UK 2315131	01/1998	Cambridge Imaging Ltd.		
	B6	EP 0539888	05/1993	Shimadzu Corporation		
	B7	EP 0572157	12/1993	Puritan-Bennett Corporation		
	B8	EP 0799897	10/1997	Affymetrix, Inc.		
	B9	WO 92/09300	06/1992	Iterex Pharmaceuticals LTD		
	B10	WO 94/02515	02/1994	Bunsen Rush Laboratories		
	B11	WO 94/12863	06/1994	Trustees of Tufts College		
<i>2</i>	B12	WO 95/16918	06/1995	Combichem Inc.		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/748,706
		Filing Date	December 22, 2000
		First Named Inventor	Chee, M.S.
		Group Art Unit	1634
		Examiner Name	Forman, B.J.
		Attorney Docket Number	A-66828-5/RMS/DCF/KJC
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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.	Foreign Patent Document Country Code ² Number ² Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴	
1/6	B13	WO 95/21271	08/1995	Molecular Tool Inc.			
	B14	WO 95/33070	12/1995	New York Medical College			
	B15	WO 96/04547	02/1996	Lockheed Martin Energy Systems, Inc.			
	B16	WO 96/11878	04/1996	Regents of the Univ. of CA			
	B17	WO 96/15271	05/1996	Abbott Laboratories			
	B18	WO 96/36436	11/1996	IRORI			
	B19	WO 96/40901	12/1996	Gen-Probe Inc.			
	B20	WO 97/12030	04/1997	Nanogen, Inc.			
	B21	WO 97/13870	04/1997	Heller			
	B22	WO 97/45559	12/1997	Cornell Research Foundation			
	B23	WO 98/04746	02/1998	Mount Sinai School of Medicine of CUNY			
	B24	WO 98/08092	02/1998	Smith Kline Beecham Corp.			
	B25	WO 98/29736	07/1998	Genometrix Incorporated			
	B26	WO 98/46797	10/1998	Immunological Associates of Denver			
	B27	WO 99/00663	01/1999	California Institute of Technology			
	B28	WO 99/05320	02/1999	Rapigene, Inc.			
	B29	WO 99/09394	02/1999	Alexion Pharmaceuticals, Inc.			
	B30	WO 99/28505	06/1999	Curagen Corp.			
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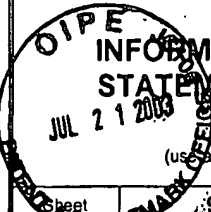
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M	B31	WO 99/34931	07/1999	Cartesian Technology, Inc.		
	B32	WO 99/39001	08/1999	Amersham Pharmacia Biotech AB		
	B33	WO 99/53087	10/1999	Europäisches Laboratorium für Molekularbiologie (EMBL)		
	B34	WO 00/13004	03/2000	Trustees of Tufts College		
	B35	WO 00/26411	05/2000	Lynx Therapeutics		
	B36	WO 00/34299	06/2000	Biochip Technologies GMBH		
	B37	WO 00/47767	08/2000	Astrazeneca UK Limited.		
	B38	WO 01/12862	02/2001	Illumina, Inc.		
	B39	WO 01/18524	03/2001	Illumina, Inc.		
	B40	WO 01/41918	06/2001	Illumina, Inc.		
	B41	WO 01/46675	06/2001	Illumina, Inc.		
	B42	WO 01/57268	08/2001	Illumina Inc.		
	B43	WO 01/57269	08/2001	Illumina Inc.		
	B44	WO 01/59432	08/2001	Illumina Inc.		
	B45	WO 01/61043	08/2001	Illumina Inc.		
	B46	WO 02/00336	01/2002	Illumina Inc.		
B47	WO 02/099982	12/2002	Illumina Inc.			
B48	WO 02/12897	02/2002	Illumina Inc.			

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		Attorney Docket Number	A-66828-5/RMS/DCF/KJC
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u	B49	WO 02/16649	02/2002	Illumina Inc.		
	B50	WO 02/21128	03/2002	Illumina Inc.		
	B51	WO 02/101358	12/2002	Illumina Inc.		
	B52	WO 03/002979	12/2002	Illumina Inc.		
u	B53	WO 03/006677	01/2003	Illumina Inc.		

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u	C1	Angel, S., "Optrodes: Chemically Selective Fiber-Optic Sensors," Spectroscopy, 2(4):38-47 (1987)				
	C2	Baner et al., "Signal amplification of padlock probes by rolling circle replication," Nucleic Acids Research, 26(22): 5073-5078 (1998).				
	C3	Barnard et al., "Fiber-Optic Organic Vapor Sensor," Environ. Sci. Technol., 25(7): 1301-1304 (1991)				
	C4	Ben-Dor, A., et al., "Universal DNA Tag Systems: A Combinatorial Design Scheme." J. Compu. Biol. 7(3/4): 503-519 (2000)				
	C5	Birindelli, S. et al., "Comments on Adaptation of the Cellscan Technique for the SCM Test in Breast Cancer," European J. Cancer 33(8):1333-1334 (1997)				
	C6	Brenner, S., et al. "Gene Expression Analysis by Massively Parallel Signature Sequencing (MPSS) on Microbead Arrays." Nature Biotechnology 18: 630-634 (2000)				
	C7	Bruchez et al., "Semiconductor Nanocrystals as Fluorescent Biological Labels," Science, 281: p. 2013-; Sept. 25, 1998				
	C8	Carey, W.P. et al., "Chemical Piezoelectric Sensor and Sensor Array Characterization," Anal. Chem. 58(14):3077-3084 (1986)				
	C9	Castano, J. et al., "Dynamic Monitoring and Quantification of Gene Expression in Single Living Cells: A Molecular Basis for Secretory Cell Heterogeneity," Mol. Endo. 10(5):599-605 (1996)				
	C10	Chiavaroli, C. et al., "Simultaneous Monitoring of Cytosolic Free Calcium and Exocytosis at the Single Cell Level," J. Neuroendocrinology 3(3):253-260 (1991)				
u	C11	Clark, R. et al., "Electrochemical Analysis in Picoliter Microvials," Anal. Chem. 69:259-263 (1997)				

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Sheet	11	of	15

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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	C12	Danielson et al., "A Combinatorial Approach to the Discovery and Optimization of Luminescent Materials," Nature, 389:944-948 (1997).	
	C13	DeForest, W.S., "Photoresist Materials and Processes," McGraw-Hill Book Company, New York. 89101 (1975)	
	C14	Deutsch, M. et al., "Apparatus for high Precision Repetitive Sequential Optical Measurement of Living Dells," Cytometry 16:214-226 (1994)	
	C15	Deutsch, M. et al., "Lymphocyte Fluorescence Polarization Measurements with the Cellscan System: Application to the SCM Cancer Test," Cytometry 23:159-165 (1996)	
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	C20	Fathi, et al., "Synthesis and Properties of Combinatorial Libraries of Phosphoramidates," J. Org. Chem. Soc. 61(16): 5600-5609 (1996)	
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	C23	Gauci, M. et al., "Observation of Single-Cell Fluorescence Spectra in Laser Flow Cytometry," Cytometry 25:388-393 (1996)	
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	C25	Grime, G.W., Non-Silver Photographic Processes, Proceedings of the Symposium on Non-Silver Photographic Processes Held at New College, Oxford, September, 1973. "Holographic Diffraction Gratings Recorded in Photoresist," P. 275-284 (1973)	
	C26	Gunderson, K.L., "Mutation Detection by Ligation to Complete n-mer DNA Arrays," Genome Research 8:1142-1153 (1998)	
	C27	Hafeman, D. et al., "Light-Addressable Potentiometric sensor for biochemical systems," Science, 240:1182-1185 (1988)	

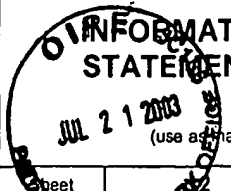
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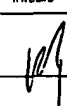
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		Group Art Unit	1634
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		Attorney Docket Number	A-66828-5/RMS/DCF/KJC
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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	C28	Hirschhorn, J.N., et al., "SBE-TAGS: An Array-Based Method for Efficient Single-Nucleotide Polymorphism Genotyping." PNAS 97(22): 12164-12169 (2000)	
	C29	Hogan, B. et al., "Single-cell Analysis at the Level of a Single Human Erythrocyte," Trends in Analytical Chemistry 12(1):4-9 (1993)	
	C30	Hsuih et al., "Novel, ligation-dependant PCR assay for detection of Hepatitis C Virus in Serum," J. of Clinical Microbiology, 34(3): 501-507 (1996).	
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	C35	Ince, C. et al., "A Micro-Perfusion Chamber for Single-Cell Fluorescence Measurements," Journal of Immunological Methods 128:227-234 (1990)	
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	C39	Levy, U. et al., "Direct Picture Transmission in a Single Optical Fiber with Holographic Filters," Optics Communications, 30(2):163-165 (1979)	
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W	C45	Lubbers, D. et al., "Optical Fluorescence Sensors for Continuous Measurement of Chemical Concentrations in Biological Systems," Sens. Actuators, 4:641-654 (1983)	
	C46	Lundstrom, I. et al., "Artificial 'olfactory' images from a chemical sensor using a light-impulse technique," Nature, 352:47-50 (1991).	
	C47	Luong, J. et al., "Fluorescence Sensors for Monitoring Bioprocesses," Practical Fluoro, ed. G.G. Guilbault, 2nd Ed., Marcel Dekker, 775-793 (New York 1990).	
	C48	McConnell, et al., "The Cytosensor Microphysiometer: Biological Applications of Silicon Technology," Science 257:1906-1912 (September 1992)	
	C49	Metzker, M. et al., "Termination of DNA synthesis by novel 3'-modified-deoxyribonucleoside 5'-triphosphates," Nucleic Acids Research, 22(20):4259-4267 (1994)	
	C50	Milanovich et al., "Clinical Measurements Using Fiber Optics and Optrodes," Novel Optical Fiber Techniques for Medical Application, SPIE, 494:1831 (1984)	
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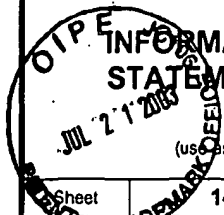
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			Filing Date	December 22, 2000
			First Named Inventor	Chee, M.S.
			Group Art Unit	1634
			Examiner Name	Forman, B.J.
Sheet 14 of 15	Attorney Docket Number		A-66828-5/RMS/DCF/KJC	

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11	C63	Plunkett, M. et al., "Combinatorial Chemistry and New Drugs," Scientific American, April 1997, 69-73.		
	C64	Rahmani, et al., "Adaption of the Cellscan Technique for the SCM Test in Breast Cancer," European J. Cancer 32A(10): 1758-1765 (1996)		
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	C73	Smith, L., et al., "Fluorescence detection in automated DNA sequence analysis," Nature, 321, 674-679 (1986)		
	C74	Still, W.C., et al., "Discovery of Sequence-Selective Peptide Binding by Synthetic Receptors Using Encoded Combinatorial Libraries," Acc. Chem. Res. 29(3): 155-163 (1996)		
	C75	Syvanen, Anne-Christine. "From gels to chips: "Minisequencing" Primer Extension for Analysis of Point Mutations and Single Nucleotide Polymorphisms," Human Mutation, 13:1-10 (1999).		
	C76	Tong, W. et al, "Monitoring Single-cell Pharmacokinetics by Capillary Electrophoresis and Laser-induced native Fluorescence," J. Chromatography B. 689:321-325 (1997)		
	C77	Venton, D. et al., "Screening combinatorial libraries," Chemometrics and Intelligent Laboratory Systems, NL, Elsevier Science Publishers, Amsterdam, 48(2) 131-150 (1999)		
	C78	Walt, D. et al., "Design, Preparation, and Applications of Fiber-Optic Chemical Sensors for Continuous Monitoring," Fiber Optic Chemical Sensors, Chemical Sensors and Microinstrumentation, 252-272 (1989)		
	C79	White, J. et al., "Rapid Analyte Recognition in a Device Based on Optical Sensors and the Olfactory System," Analytical Chemistry, 68(13): 2191-2201 (1996)		
11	C80	Wightman, R.M. et al., "Monitoring Catecholamines at Single Cells," Trends in Analytical Chemistry 14(4):154-158 (1995)		

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/	C81	Wolfbeis, O. et al., "Fiber-Optic Fluorosensor for Oxygen and Carbon Dioxide," Anal. Chem., 60:2028-2030 (1998)	
	C82	Wolfbeis, O., "Fiber Optical Fluorosensors in Analytical and Clinical Chemistry," Molecular Luminescence Spectroscopy, Methods and Applications (S.G. Schulman, editor), Wiley & Sons, New York, 129-280 (1988)	
	C83	Wong, K. et al., "Simultaneous Monitoring of Glutathione and Major Proteins in Single Erythrocytes," Mikrochim. Acta. 120:321-327 (1995)	
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	C88	Zhang et al., "A Combinatorial Method for the Solid Phase Synthesis of Alpha-Amino Phosphates and Phosphonic Acids," Tetrahedron Letter, 37(31): 5457-5460 (1996)	
	C89	Zhujun, Z. et al., "A Fluorescence Sensor for Quantifying pH in the Range for 6.5 to 8.5," Anal. Chem. Acta., 160:47-55 (1984)	
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	C91		
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